

Converting Colors

XYZ(31.3340, 16.0990, 3.9163)

Have a look what the booklet for
XYZ(31.3340, 16.0990, 3.9163)
contains.

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Color

**XYZ(31.2141, 16.0368,
3.9329)**

Conversions

Conversions Part 1

Format	Color
Hex	E0002D
RGB	224, 0, 45
RGB Percent	88%, 0%, 18%
CMY	0.1216, 0.9998, 0.8235
CMYK	0.00, 1.00, 0.80, 0.12
HSL	348°, 100%, 44%
HSV	348°, 100%, 88%
XYZ	31.2141, 16.0368, 3.9329
YIQ	72.1060, 119.0590, 61.4830

Conversions

Conversions Part 2

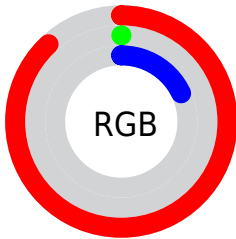
Format	Color
RYB	224, 0, 45
Decimal	14680109
CIELab	47.02, 73.31, 42.55
CIElCh	47, 84.766, 30.129
Yxy	16.0368, 0.6098, 0.3133
Android (android.graphics.Color)	4292870189 (0xFFE0002D)
YUV	72.1060, -13.3633, 133.2110
Hunter-Lab	40.0460, 69.0526, 22.2093

Details

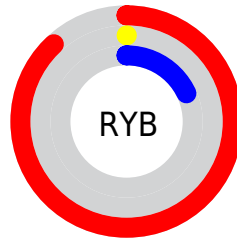
The XYZ color **31.2141, 16.0368, 3.9329** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **34.7983, 56.5680, 51.7614**, and the grayscale version is **6.1910, 6.5134, 7.0931**.

A 20% lighter version of the original color is **46.7845, 29.3277, 13.0925**, and **14.2981, 7.3709, 0.6691** is the 20% darker color. If you saturate the color by 10%, you get **31.2130, 16.0363, 3.9284**, and if you desaturate by 10%, it is **31.9304, 16.7964, 6.2478**.

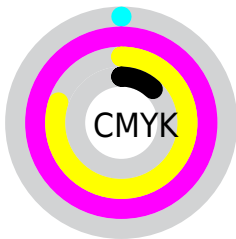
Distribution



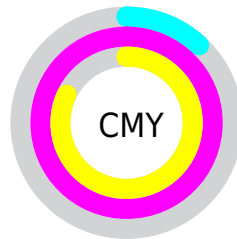
- Red (88%)
- Green (0%)
- Blue (18%)



- Red (88%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (12%)





- Cyan (12%)
- Magenta (100%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2141, 16.0368, 3.9329 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 31.2141, 16.0368, 3.9329 by changing the saturation by 10% instead.


 31.2141, 16.0368,
3.9329


 31.2141, 16.0368,
3.9329


299.3328,
229.5588, 147.4766

 20.9146, 9.5502,
1.5886


 60.9505, 36.6621,
13.8547


 13.1737, 5.1018,
0.2827


 81.1182, 51.5695,
22.2693

 7.6261, 2.3071,
0.0000


 105.3058, 70.0528,
33.5444

 3.9064, 0.7775,
0.0000

 133.8790, 92.4961,
48.0986

 1.6493, 0.0000,
0.0000

 167.2028,
119.2840, 66.3503

 0.4242, 0.0000,
0.0000

 205.6429,

 0.0000, 0.0000,

150.8008, 88.7182

0.0000

249.5644,
187.4309, 115.6208

■ 31.2141, 16.0368,
3.9329

■ 31.2141, 16.0368,
3.9329

■ 31.2130, 16.0363,
3.9284

■ 31.9304, 16.7964,
6.2478

■ 33.1511, 18.3042,
9.5329

■ 35.0010, 20.7873,
13.9003

■ 37.5558, 24.3769,
19.4379

■ 40.8801, 29.1836,
26.2241

■ 45.0309, 35.3045,
34.3304

■ 50.0598, 42.8270,
43.8226

■ 56.0140, 51.8308,
54.7621

■ 62.9374, 62.3896,
67.2067

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.4270, 16.0368, 17.3698



31.2141, 16.0368, 3.9329



23.5109, 16.0368, 0.5292

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.2141, 16.0368, 3.9329



5.9153, 16.0368, 3.9920



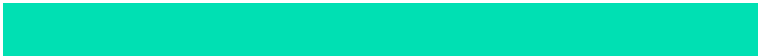
15.2745, 16.0368, 98.4952

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.2141, 16.0368, 3.9329



34.7983, 56.5680, 51.7614

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



9.1830, 16.0368, 82.2739



31.2141, 16.0368, 3.9329



4.9630, 16.0368, 17.5532

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.2141, 16.0368, 3.9329



9.1435, 16.0368, 0.5425



5.9324, 16.0368, 47.0535



23.5850, 16.0368, 82.0165

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.2141, 16.0368, 3.9329



17.8219, 16.0368, 0.0000



5.9324, 16.0368, 47.0535



12.9248, 16.0368, 96.5908

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.2144, 16.0378, 3.9331



66.9812, 57.1886, 58.4608



31.2417, 14.5524, 71.6826



13.6945, 11.2770, 11.3100



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.2144, 16.0378, 3.9331



41.8415, 21.5006, 5.0973



32.5462, 19.4587, 2.0421



13.8191, 13.7453, 14.8178



18.2012, 9.3475, 2.4595



1.2935, 0.6607, 0.3386

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



31.2144, 16.0378, 3.9331



41.8415, 21.5006, 5.0973



26.1212, 30.7144, 75.0721



13.8191, 13.7453, 14.8178



18.2012, 9.3475, 2.4595



1.2935, 0.6607, 0.3386

Previews

White Background



This preview shows how the XYZ color 31.2141, 16.0368, 3.9329 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 31.2141, 16.0368, 3.9329 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.2141, 16.0368, 3.9329

Background



This preview shows how black text looks on a background with the XYZ color 31.2141, 16.0368, 3.9329.



This preview shows how white text looks on a background with the XYZ color 31.2141, 16.0368,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

31.2141, 16.0368, 3.9329

Protanopia

15.3228, 16.5375, 8.1788

Deuteranopia

16.8999, 16.6486, 3.4214



Tritanopia

30.6816, 16.1883, 1.5076

Trichromacy



Original Color

31.2141, 16.0368, 3.9329

Protanomaly

17.6569, 12.4452, 5.8864

Deuteranomaly

19.4301, 13.1424, 3.0260

Tritanomaly

30.6689, 16.0132, 1.9646

Monochromacy



Original Color

31.2141, 16.0368, 3.9329

Achromatopsia

6.1596, 6.4803, 7.0571

Achromatomaly

10.5989, 6.8138, 5.3140

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2141, 16.0368, 3.9329 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(224, 0, 45)` looks like.

```
.text, #text, p{  
    color:rgb(224, 0, 45)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(224, 0, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 0, 45) }
```

Border

The CSS property to change the border of an element to XYZ 31.2141, 16.0368, 3.9329 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(224, 0, 45) }
```


If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(224, 0, 45) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(224, 0, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 0, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 0, 45);  
box-shadow:4px 4px 4px 4px rgb(224, 0, 45)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.2141, 16.0368, 3.9329 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 0, 45) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(224, 0,  
45) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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